



महाराष्ट्र शासन  
जलसंपदा विभाग

कनिष्ठ अभियंता (स्थापत्य) गट-ब (अराजपत्रित) सरळसेवा परीक्षा-२०१९

Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ Ramtekdi 1
Test Date	09/08/2022
Test Time	4:00 PM - 5:30 PM
Subject	Cluster 1

Section : English

Q.1 Select the most appropriate ANTONYM of the given word.

Defer

- Ans
- 1. Delay
  - 2. Prolong
  - 3. Advance
  - 4. Waive

Question Type : MCQ

Question ID : 387868514

Option 1 ID : 3878682014

Option 2 ID : 3878682013

Option 3 ID : 3878682015

Option 4 ID : 3878682016

Status : Answered

Chosen Option : 3

Q.2 Select the most appropriate meaning of the given idiom.

Carrot and stick

- Ans
- 1. Reward and punishment
  - 2. Good and evil
  - 3. Loss and gain
  - 4. Rise and fall

Question Type : MCQ

Question ID : 387868516

Option 1 ID : 3878682022

Option 2 ID : 3878682021

Option 3 ID : 3878682023

Option 4 ID : 3878682024

Status : Answered

Chosen Option : 1

Q.3 Select the most appropriate option to fill in the blank.

We gave up the project because we had \_\_\_\_\_hope of its success.

- Ans  1. little  
 2. a few  
 3. a little  
 4. few

Question Type : MCQ  
Question ID : 387868511  
Option 1 ID : 3878682002  
Option 2 ID : 3878682003  
Option 3 ID : 3878682001  
Option 4 ID : 3878682004  
Status : Answered  
Chosen Option : 3

Q.4 Select the most appropriate synonym of the given word.

Incessant

- Ans  1. Continuous  
 2. Halting  
 3. Occasional  
 4. Merciful

Question Type : MCQ  
Question ID : 387868515  
Option 1 ID : 3878682017  
Option 2 ID : 3878682018  
Option 3 ID : 3878682020  
Option 4 ID : 3878682019  
Status : Answered  
Chosen Option : 1

Q.5 Select the most appropriate option to fill in the blank.

He \_\_\_\_\_across the river even though the current was very swift.

- Ans  1. swam  
 2. had swim  
 3. swum  
 4. would have swam

Question Type : MCQ  
Question ID : 387868513  
Option 1 ID : 3878682010  
Option 2 ID : 3878682011  
Option 3 ID : 3878682009  
Option 4 ID : 3878682012  
Status : Answered  
Chosen Option : 1

**Q.6** Select the most appropriate option to fill in the blank.

I will say \_\_\_\_\_ his face what I think of his ideas.

- Ans
- 1. by
  - 2. on
  - 3. at
  - 4. to

Question Type : MCQ

Question ID : 387868512

Option 1 ID : 3878682008

Option 2 ID : 3878682005

Option 3 ID : 3878682006

Option 4 ID : 3878682007

Status : Answered

Chosen Option : 2

**Q.7** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Both his parents were Music Hall artists, who separated when Charlie was very young.
- B. Sometimes, Chaplin had to sleep on the streets and forage for food in the garbage.
- C. His childhood was very sad, for his mother never earned enough to look after Charlie and his older brother, Sydney.
- D. Life wasn't always a laugh for Charles Spencer Chaplin.

- Ans
- 1. CABD
  - 2. BACD
  - 3. DACB
  - 4. CBDA

Question Type : MCQ

Question ID : 387868517

Option 1 ID : 3878682025

Option 2 ID : 3878682028

Option 3 ID : 3878682027

Option 4 ID : 3878682026

Status : Answered

Chosen Option : 3

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky ; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 8**

**Q.8** Select the most appropriate synonym of the word

'ailment'.

- Ans
- 1. Remedy
  - 2. Pretext
  - 3. Relief
  - 4. Illness

Question Type : **MCQ**

Question ID : **387868521**

Option 1 ID : **3878682038**

Option 2 ID : **3878682037**

Option 3 ID : **3878682039**

Option 4 ID : **3878682040**

Status : **Answered**

Chosen Option : **3**

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky ; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 9**

**Q.9** Why was Tom miserable on Monday morning?

- Ans
- 1. His loose tooth was hurting.
  - 2. He would have to go to school.
  - 3. He had to visit the doctor.
  - 4. He had a sore toe.

Question Type : **MCQ**

Question ID : **387868519**

Option 1 ID : **3878682030**

Option 2 ID : **3878682031**

Option 3 ID : **3878682029**

Option 4 ID : **3878682032**

Status : **Answered**

Chosen Option : **2**

**Comprehension:**

Read the given passage and answer the questions that follow.

Tom Sawyer found Monday morning miserable. He always found it so because it began another week's slow suffering in school. Tom lay thinking. Presently it occurred to him that he wished he was sick; then he could stay home from school. Here was a vague possibility. But no ailment was found. Suddenly, he discovered something. One of his upper front teeth was loose. This was lucky; he was about to begin to groan, when it occurred to him that his aunt would pull it out, and that would hurt. So, he thought he would hold the tooth in reserve for the present, and seek further. Then he remembered hearing the doctor tell about certain things that threatened to make patients lose a finger. So, the boy eagerly drew his sore toe from under the sheet and held it up for inspection. It seemed worthwhile to chance it, so he fell to groaning with considerable spirit.

**SubQuestion No : 10**

**Q.10 'he thought he would hold the tooth in reserve for the present,' This implies that:**

- Ans**  1. Tom wanted his aunt to believe he was really in pain  
 2. Tom was looking for a better excuse to stay at home  
 3. Tom was more worried about losing a finger  
 4. Tom would wait for the tooth to fall out on its own

Question Type : MCQ

Question ID : 387868520

Option 1 ID : 3878682036

Option 2 ID : 3878682034

Option 3 ID : 3878682035

Option 4 ID : 3878682033

Status : Answered

Chosen Option : 2

Section : Marathi

**Q.11 अचूक वाक्यरचना शोधा.**

- Ans**  1. साखरेच्या पाकातले बदाम त्याने वाडीतील प्रत्येकाला वाटले होते मुलीच्या जन्माच्या वेळी त्याच्या.  
 2. मुलीच्या त्याच्या जन्माच्या वेळी वाडीतील प्रत्येकाला साखरेच्या पाकातले बदाम त्याने वाटले होते.  
 3. त्याच्या मुलीच्या जन्माच्या वेळी त्याने वाडीतील प्रत्येकाला साखरेच्या पाकातले बदाम वाटले होते.  
 4. वाडीतील प्रत्येकाला त्याने त्याच्या मुलीच्या जन्माच्या वेळी पाकातले बदाम साखरेच्या वाटले होते.

Question Type : MCQ

Question ID : 387868528

Option 1 ID : 3878682068

Option 2 ID : 3878682065

Option 3 ID : 3878682067

Option 4 ID : 3878682066

Status : Answered

Chosen Option : 3

Q.12 भयानक वादळात मोठी झाडेसुद्धा कोसळली. या वाक्यातील विशेषणे सांगा.

- Ans
- 1. वादळात,कोसळली
  - 2. भयानक ,झाडेसुद्धा
  - 3. भयानक,मोठी
  - 4. मोठी,झाडेसुद्धा

Question Type : MCQ

Question ID : 387868523

Option 1 ID : 3878682045

Option 2 ID : 3878682048

Option 3 ID : 3878682047

Option 4 ID : 3878682046

Status : Answered

Chosen Option : 3

Q.13 'नाचता येईना अंगण वाकडे' या म्हणीचा योग्य अर्थ सांगा.

- Ans
- 1. एखाद्या गोष्टीशी कोणताच संबंध नसणे
  - 2. सर्वत्र सारखीच स्थिती असणे
  - 3. खूप मोठा खर्च करणे
  - 4. काम करता न आल्यामुळे संबंधित गोष्टीत दोष दाखवणे

Question Type : MCQ

Question ID : 387868527

Option 1 ID : 3878682064

Option 2 ID : 3878682063

Option 3 ID : 3878682061

Option 4 ID : 3878682062

Status : Answered

Chosen Option : 4

Q.14 सुगंध या शब्दाचा विरुद्धार्थी शब्द सांगा.

- Ans
- 1. दुरंध
  - 2. परिमळ
  - 3. सुवास
  - 4. गंधयुक्त

Question Type : MCQ

Question ID : 387868526

Option 1 ID : 3878682059

Option 2 ID : 3878682058

Option 3 ID : 3878682057

Option 4 ID : 3878682060

Status : Answered

Chosen Option : 1

Q.15 कोणीही पाणी उभ्याने पिऊ नये , सावकाश बसून प्यावे. या वाक्यातील क्रियाविशेषणे ओळखा.

- Ans  1. उभ्याने,सावकाश,बसून  
 2. कोणीही,पाणी,प्यावे  
 3. पाणी,सावकाश ,नये  
 4. उभ्याने,सावकाश,कोणीही

Question Type : MCQ  
Question ID : 387868522  
Option 1 ID : 3878682041  
Option 2 ID : 3878682044  
Option 3 ID : 3878682042  
Option 4 ID : 3878682043  
Status : Answered  
Chosen Option : 1

Q.16 पुढीलपैकी कोणता शब्द 'झाड' या शब्दाचा समानार्थी नाही ?

- Ans  1. वृक्ष  
 2. तारू  
 3. तरू  
 4. द्रुम

Question Type : MCQ  
Question ID : 387868525  
Option 1 ID : 3878682054  
Option 2 ID : 3878682055  
Option 3 ID : 3878682053  
Option 4 ID : 3878682056  
Status : Answered  
Chosen Option : 3

Q.17 "मुलगा पुस्तक वाचत असे." या वाक्यातील काळ कोणता आहे?

- Ans  1. पूर्ण भूतकाळ  
 2. रीतिभूतकाळ  
 3. अपूर्ण भूतकाळ  
 4. साधा भूतकाळ

Question Type : MCQ  
Question ID : 387868524  
Option 1 ID : 3878682051  
Option 2 ID : 3878682052  
Option 3 ID : 3878682050  
Option 4 ID : 3878682049  
Status : Answered  
Chosen Option : 2

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि 'माझीच छत्री सुंदर' असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वह्या, पुस्तक असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणीचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाचे छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 18**

Q.18 भावाने पहिल्या दिवशीच छत्री फेकून दिली कारण....

- Ans
- 1. पावसात छत्री उलटी झाली होती.
  - 2. छत्रीचा रंग काळा होता.
  - 3. त्याला शाळेत चिडवले होते.
  - 4. छत्रीचा आकार मोठा नव्हता.

Question Type : MCQ

Question ID : 387868532

Option 1 ID : 3878682078

Option 2 ID : 3878682079

Option 3 ID : 3878682080

Option 4 ID : 3878682077

Status : Answered

Chosen Option : 3

Adda247



**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि 'माझीच छत्री सुंदर' असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वह्या, पुस्तक असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणीचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाचे छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 19**

Q.19 'ऐट' या अर्थाचा उतान्यातील शब्द शोधा.

- Ans  1. निरागस  
 2. दिमाख  
 3. स्तुती  
 4. अधीर

Question Type : MCQ

Question ID : 387868531

Option 1 ID : 3878682073

Option 2 ID : 3878682074

Option 3 ID : 3878682075

Option 4 ID : 3878682076

Status : Answered

Chosen Option : 4

Adda247

**Comprehension:**

दिलेला उतारा वाचा आणि पुढील प्रश्नांची उत्तरे द्या.

शाळेचा पहिला दिवस म्हणजे रंगीबेरंगी छत्र्यांनी फुललेले आवार. त्यादिवशी प्रत्येक जण शाळेत येई तो आपली नवीन छत्री मिरवण्यासाठीच. आपल्या छत्रीची सर्वांनी स्तुती करावी म्हणून अधीर असणारं ते निरागस बालपण आणि 'माझीच छत्री सुंदर' असा विश्वास चेहऱ्यावर ठेवून दिमाखात चालणारी ती पाउले. एकदा का या छत्रीचे कौतुक सुरू झाले की गणवेश, वहा, पुस्तक असल्या वस्तूंचं कौतुक करतो कोण ?

माझ्या असंख्य आवडत्या वस्तूत या छत्रीचा नंबर पहिला, पण मला ती बालपणात खूप उशिरा मिळाली. पण मला समजत होतं की एकदा का मला छत्री घेतली की माझ्या दोन लहान भावंडांना सुद्धा ती घ्यावी लागणार. तरीही शाळेत जाणाऱ्या माझ्या धाकट्या भावाला आधी छत्री मिळाली. कारण आम्हा मोठ्या बहिणींचा समजूतदारपणा.

आमच्या लहानपणी छत्र्यांचे आकार दोनच ...एक लहान, दुसरा मोठा. रंग दोन किंवा तीन....लाल, काळा, निळा. त्यात आम्हाला वाईट वाटण्याचे कारण म्हणजे भावाला लाल रंगाचे छत्री आमच्या आधी मिळाली. पण तो मराठी शाळेतून घरी आला तो रडतच. आल्याआल्या त्याने छत्री फेकून दिली. त्याला शाळेत सगळ्यांनी 'मुलींची छत्री' म्हणून चिडवले होते.

**SubQuestion No : 20**

Q.20 शाळेत मुलांना कोणत्या गोष्टीचे सर्वात जास्त कौतुक होते?

- Ans
- 1. नवीन वहा
  - 2. नवीन गणवेश
  - 3. नवीन छत्री
  - 4. नवीन पुस्तके

Question Type : MCQ

Question ID : 387868530

Option 1 ID : 3878682069

Option 2 ID : 3878682072

Option 3 ID : 3878682071

Option 4 ID : 3878682070

Status : Answered

Chosen Option : 3

**Section : General Knowledge**

Q.21 2011 च्या जनगणनेनुसार, महाराष्ट्रातील किती जिल्ह्यांमध्ये लिंग गुणोत्तर हे 1000 पेक्षा जास्त (स्त्रिया प्रति हजार पुरुषांच्या तुलनेत) आहे?

- Ans
- 1. 4
  - 2. 2
  - 3. 3
  - 4. 1

Question Type : MCQ

Question ID : 387868539

Option 1 ID : 3878682108

Option 2 ID : 3878682106

Option 3 ID : 3878682107

Option 4 ID : 3878682105

Status : Answered

Chosen Option : 2

Q.22 जयपूरमधील वस्तू बाजारामध्ये एकविध वस्तूचे उत्पादन करणाऱ्या काही कंपन्या आहेत. वर वर्णन केलेल्या बाजाराच्या संरचनेचे योग्य वर्णन करणारा पर्याय खालील पर्यायांतून निवडा.

- Ans
- 1. परिपूर्ण स्पर्धा
  - 2. एकाधिकार स्पर्धा
  - 3. अल्पजनाधिकार
  - 4. एकाधिकार

Question Type : MCQ

Question ID : 387868537

Option 1 ID : 3878682098

Option 2 ID : 3878682097

Option 3 ID : 3878682100

Option 4 ID : 3878682099

Status : Answered

Chosen Option : 2

Q.23 UNEP ने आयोजित केलेल्या 50 व्या जागतिक पर्यावरण दिवस (World Environment Day) 2022 चा विषय काय होता?

- Ans
- 1. ओन्ली वन अर्थ (Only One Earth)
  - 2. टाईम फॉर नेचर (Time for Nature)
  - 3. बिटींग प्लास्टिक पोल्युशन (Beating Plastic Pollution)
  - 4. एयर पोल्युशन (Air pollution)

Question Type : MCQ

Question ID : 387868534

Option 1 ID : 3878682086

Option 2 ID : 3878682087

Option 3 ID : 3878682085

Option 4 ID : 3878682088

Status : Answered

Chosen Option : 1

Q.24 महाराष्ट्राच्या नैसर्गिक संसाधनांच्या बाबतीत, नागपूर प्रदेशातील कामटी कशासाठी प्रसिद्ध आहे?

- Ans
- 1. सोने
  - 2. दगडी कोळसा
  - 3. जस्त
  - 4. युरेनियम

Question Type : MCQ

Question ID : 387868540

Option 1 ID : 3878682110

Option 2 ID : 3878682112

Option 3 ID : 3878682111

Option 4 ID : 3878682109

Status : Answered

Chosen Option : 2

Q.25 खालीलपैकी कोणते वन्यजीव अभयारण्य शेकरूसाठी (Malabar giant squirrel) प्रसिद्ध आहे?

- Ans
- 1. नागझिरा वन्यजीव अभयारण्य
  - 2. सागरेश्वर वन्यजीव अभयारण्य
  - 3. मेळघाट वन्यजीव अभयारण्य
  - 4. भीमाशंकर वन्यजीव अभयारण्य

Question Type : MCQ

Question ID : 387868541

Option 1 ID : 3878682114

Option 2 ID : 3878682116

Option 3 ID : 3878682115

Option 4 ID : 3878682113

Status : Answered

Chosen Option : 4

Q.26 भारतीय राज्यघटनेच्या कोणत्या अनुच्छेदानुसार महाराष्ट्रात जिल्हा नियोजन समितीची निर्मिती करण्यात आली?

- Ans
- 1. अनुच्छेद 243ZB
  - 2. अनुच्छेद 243ZA
  - 3. अनुच्छेद 243ZD
  - 4. अनुच्छेद 243ZC

Question Type : MCQ

Question ID : 387868538

Option 1 ID : 3878682102

Option 2 ID : 3878682101

Option 3 ID : 3878682104

Option 4 ID : 3878682103

Status : Answered

Chosen Option : 2

Q.27 2022 मध्ये एन्व्हायरमेंट परफॉर्मन्स इंडेक्स (EPI) मध्ये, येल आणि कोलंबिया विद्यापीठांच्या संशोधकांनी केलेल्या विश्लेषणात १८० देशांमध्ये शेवटच्या क्रमांकावर कोणता देश होता?

- Ans
- 1. बांग्लादेश
  - 2. भारत
  - 3. भूतान
  - 4. पाकिस्तान

Question Type : MCQ

Question ID : 387868535

Option 1 ID : 3878682091

Option 2 ID : 3878682092

Option 3 ID : 3878682089

Option 4 ID : 3878682090

Status : Answered

Chosen Option : 2

Q.28 \_\_\_\_\_ is a form of financial service which provides small loans and other financial services to poor and low income households.

- Ans
- 1. Qualifying Asset
  - 2. Microeconomics
  - 3. Microfinance
  - 4. Over-indebtedness

Question Type : MCQ  
Question ID : 387868536  
Option 1 ID : 3878682094  
Option 2 ID : 3878682093  
Option 3 ID : 3878682095  
Option 4 ID : 3878682096  
Status : Answered  
Chosen Option : 3

Q.29 मे 2022 मध्ये फ्रान्सचे नवे पंतप्रधान म्हणून कोणाची नियुक्ती करण्यात आली?

- Ans
- 1. बोरीस जॉन्सन
  - 2. गुलाम मोहम्मद शाह
  - 3. एलिझाबेथ बॉर्न
  - 4. अँथनी अल्बानीझ

Question Type : MCQ  
Question ID : 387868533  
Option 1 ID : 3878682083  
Option 2 ID : 3878682081  
Option 3 ID : 3878682082  
Option 4 ID : 3878682084  
Status : Answered  
Chosen Option : 4

Q.30 2011 च्या जनगणनेनुसार, खालीलपैकी कोणत्या जिल्ह्याचे लिंग गुणोत्तर 1000 पेक्षा जास्त आहे?

- Ans
- 1. गडचिरोली
  - 2. अकोला
  - 3. सिंधुदुर्ग
  - 4. भंडारा

Question Type : MCQ  
Question ID : 387868542  
Option 1 ID : 3878682119  
Option 2 ID : 3878682117  
Option 3 ID : 3878682120  
Option 4 ID : 3878682118  
Status : Answered  
Chosen Option : 3

Q.31 तर

A + B म्हणजे A हे B चे वडील आहेत;  
A - B म्हणजे A हा B चा भाऊ आहे;  
A % B म्हणजे A ही B ची पत्नी आहे;  
A × B म्हणजे A ही B ची आई आहे,  
मग खालील समीकरणात A चे B शी काय नाते आहे?  
A × C % B + D

- Ans  1. आई  
 2. सासू  
 3. सून  
 4. बहीण

Question Type : MCQ  
Question ID : 387868551  
Option 1 ID : 3878682155  
Option 2 ID : 3878682153  
Option 3 ID : 3878682154  
Option 4 ID : 3878682156  
Status : Answered  
Chosen Option : 2

Q.32 खालील अक्षर, संख्या, चिन्हांची मालिका पहा आणि प्रश्नाचे उत्तर द्या.

(डावी) C 3 G T \* R % 8 5 & 9 @ A 2 ^ H 6 J 3 K & % 2 G S U # \* P 3 5 L \$ (उजवी)

मालिकेतून सर्व अक्षरे वगळली आणि उरलेल्या गोष्टी उलट्या क्रमाने लिहिल्यास, खालीलपैकी काय उजवीकडून आठव्या स्थानापासून डावीकडे असलेल्या गोष्टीच्या तिसऱ्या स्थानी असेल?

- Ans  1. 3  
 2. 6  
 3. &  
 4. ^

Question Type : MCQ  
Question ID : 387868548  
Option 1 ID : 3878682142  
Option 2 ID : 3878682141  
Option 3 ID : 3878682144  
Option 4 ID : 3878682143  
Status : Answered  
Chosen Option : 2

Q.33 D, E, F, P, Q, R आणि, S हे सात मित्र एका सरळ रेषेत उभे आहेत. त्या सर्वांचे तोंड उत्तरेकडे आहे. Q आणि D मध्ये फक्त तीन व्यक्ती उभ्या आहेत. E हा F च्या उजवीकडे तिसऱ्या स्थानावर उभा आहे. P हा S च्या लगोलग उजव्या बाजूला उभा आहे. F हा सर्वात टोकाला पहिल्या स्थानावर उभा आहे. D च्या डावीकडे फक्त दोन व्यक्ती उभ्या आहेत. R आणि P यांच्या मध्ये किती व्यक्ती आहेत?

- Ans  1. तीन  
 2. दोन  
 3. शून्य  
 4. एक

Question Type : MCQ

Question ID : 387868543

Option 1 ID : 3878682124

Option 2 ID : 3878682123

Option 3 ID : 3878682121

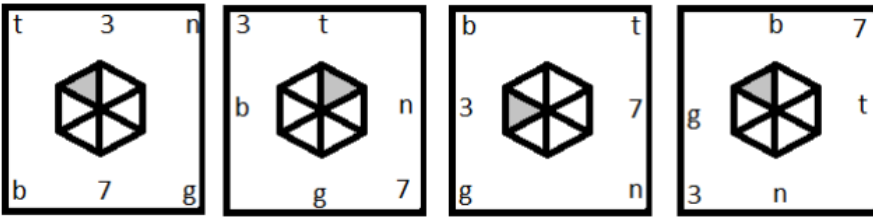
Option 4 ID : 3878682122

Status : Answered

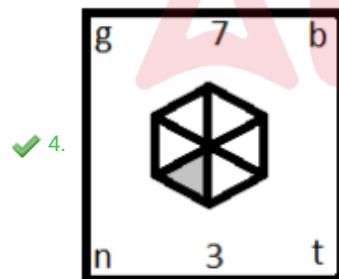
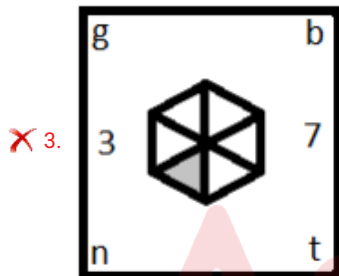
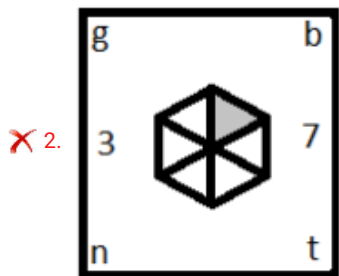
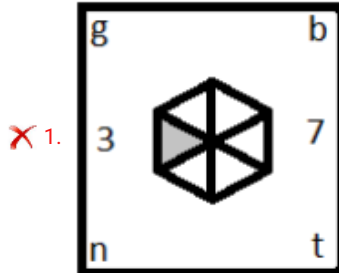
Chosen Option : 1



Q.34 Select the figure that will come next in the following figure series.



Ans



Question Type : MCQ

Question ID : 387868552

Option 1 ID : 3878682159

Option 2 ID : 3878682160

Option 3 ID : 3878682158

Option 4 ID : 3878682157

Status : Answered

Chosen Option : 4



Q.35 S, T, U, V, W आणि X अशा सहा व्यक्ती त्यांच्या वजनानुसार उभ्या आहेत. X हा U पेक्षा वजनाने कमी आहे. S हा U पेक्षा वजनाने जास्त आहे पण V पेक्षा वजनाने कमी आहे. फक्त एक व्यक्ती W पेक्षा वजनाने जास्त आहे. V चे वजन सर्वात जास्त नाही. तर खालीलपैकी कोण W पेक्षा वजनाने जास्त आहे?

- Ans  1. T  
 2. V  
 3. U  
 4. S

Question Type : MCQ

Question ID : 387868546

Option 1 ID : 3878682134

Option 2 ID : 3878682136

Option 3 ID : 3878682135

Option 4 ID : 3878682133

Status : Answered

Chosen Option : 1

Q.36 दिलेली विधाने आणि निष्कर्ष काळजीपूर्वक वाचा. विधानांत दिलेली माहिती सर्वसामान्यपणे ज्ञात तथ्यांपेक्षा भिन्न वाटत असली तरी ती सत्य गृहीत धरा आणि दिलेल्यापैकी कोणता/कोणते निष्कर्ष दिलेल्या विधानाचे तार्किकदृष्ट्या अनुसरण करतो/करतात ते ठरवा.

विधाने:

- काही आंबे लाल आहेत.  
काही लाल पिकलेले आहेत.  
कोणतेही पिकलेले भाजी नाही.

निष्कर्ष:

- I. काही भाज्या ह्या नक्कीच आंबे आहेत.  
II. काही पिकलेले आंबे आहेत.  
III. सर्व लाल आंबे असण्याची शक्यता आहे.  
IV. काही भाज्या पिकलेले आहेत.

- Ans  1. कोणताच निष्कर्ष अनुसरण करत नाही.  
 2. निष्कर्ष II आणि IV दोन्ही अनुसरण करतात.  
 3. निष्कर्ष I आणि IV दोन्ही अनुसरण करतात.  
 4. निष्कर्ष III आणि IV दोन्ही अनुसरण करतात.

Question Type : MCQ

Question ID : 387868545

Option 1 ID : 3878682129

Option 2 ID : 3878682130

Option 3 ID : 3878682132

Option 4 ID : 3878682131

Status : Answered

Chosen Option : 1

Q.37 खाली दिलेल्या संख्यांमधील सर्व अंक उलट क्रमाने लिहिल्यास खालीलपैकी कोणत्या संख्येला ३ ने भाग जाणार नाही?

765, 189, 945, 236, 591

- Ans
- 1. 765
  - 2. 189
  - 3. 236
  - 4. 945

Question Type : MCQ  
Question ID : 387868549  
Option 1 ID : 3878682147  
Option 2 ID : 3878682146  
Option 3 ID : 3878682148  
Option 4 ID : 3878682145  
Status : Answered  
Chosen Option : 1

Q.38 एका विशिष्ट सांकेतिक भाषेत, 'LOTUS' ला 'PNSRS' आणि 'HOPED' ला 'PJOCC' असे लिहिले जाते. तर त्या भाषेत 'TRUST' कसा लिहिला जाईल?

- Ans
- 1. SVTQS
  - 2. SVTSQ
  - 3. SVTRR
  - 4. STVSQ

Question Type : MCQ  
Question ID : 387868550  
Option 1 ID : 3878682151  
Option 2 ID : 3878682149  
Option 3 ID : 3878682152  
Option 4 ID : 3878682150  
Status : Answered  
Chosen Option : 1

Q.39 पाच मजल्यांच्या इमारतीमध्ये कमल, विमल, अमल, समल आणि अटल हे पाच जण वेगवेगळ्या मजल्यावर राहतात. इमारतीतील सर्वात खालच्या मजल्याचा क्रमांक 1 आहे, त्याच्या वरच्या मजल्याचा क्रमांक 2 आहे आणि अशाच प्रकारे पुढे सर्वात वरच्या मजल्याचा क्रमांक 5 आहे. अमल सम-क्रमांक असलेल्या मजल्यावर राहतो, जो मजला विमल राहतो त्या मजल्याच्या बरोबर खाली आहे. समल सम-क्रमांक असलेल्या मजल्यावर राहतो परंतु तो मजला क्रमांक 4 नाही. कमल राहत असलेल्या मजल्याच्या खाली फक्त दोन व्यक्ती राहतात. तर समल जिथे राहतो त्या मजल्याच्या वर किती व्यक्ती राहतात?

- Ans
- 1. तीन
  - 2. दोन
  - 3. एक
  - 4. चार

Question Type : MCQ  
Question ID : 387868544  
Option 1 ID : 3878682126  
Option 2 ID : 3878682125  
Option 3 ID : 3878682128  
Option 4 ID : 3878682127  
Status : Answered  
Chosen Option : 1

**Q.40** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

AB3C, BD6F, \_\_\_\_\_, DH8L, EJ6O, FL12R, GN10U

Ans  1. CF4I

2. CF4J

3. CF10I

4. CF9I

Question Type : MCQ

Question ID : 387868547

Option 1 ID : 3878682139

Option 2 ID : 3878682140

Option 3 ID : 3878682137

Option 4 ID : 3878682138

Status : Answered

Chosen Option : 2

Section : Civil Engineering

**Q.41** The indentation on one or both of the 4 ½ to 9 in the surface of the brick is called:

Ans  1. freeze

2. frog

3. throating

4. quoin

Question Type : MCQ

Question ID : 387868555

Option 1 ID : 3878682171

Option 2 ID : 3878682172

Option 3 ID : 3878682170

Option 4 ID : 3878682169

Status : Answered

Chosen Option : 2

**Q.42** The freshly detailed estimate prepared when additional works are found necessary during the progress of the project in addition to the original sanctioned estimate is called:

Ans  1. approximate estimate

2. revised estimate

3. supplementary estimate

4. detailed estimate

Question Type : MCQ

Question ID : 387868599

Option 1 ID : 3878682347

Option 2 ID : 3878682345

Option 3 ID : 3878682348

Option 4 ID : 3878682346

Status : Answered

Chosen Option : 3

**Q.43** The cross-section area of the steel rod is  $100 \text{ mm}^2$  and was tested for tension within the elastic region in the laboratory with a tensile force of 50 kN. The rod was elongated by 0.2 mm in a gauge length of 200 mm length. What is the value of Young's modulus of the rod?

- Ans
- 1. 200 GPa
  - 2. 350 GPa
  - 3. 250 GPa
  - 4. 500 GPa

Question Type : **MCQ**  
Question ID : **387868564**  
Option 1 ID : **3878682205**  
Option 2 ID : **3878682207**  
Option 3 ID : **3878682206**  
Option 4 ID : **3878682208**  
Status : **Answered**  
Chosen Option : 1

**Q.44** The ratio of plasticity index to flow index is called:

- Ans
- 1. consistency index
  - 2. liquidity index
  - 3. shrinkage index
  - 4. toughness index

Question Type : **MCQ**  
Question ID : **387868570**  
Option 1 ID : **3878682230**  
Option 2 ID : **3878682231**  
Option 3 ID : **3878682229**  
Option 4 ID : **3878682232**  
Status : **Answered**  
Chosen Option : 4

**Q.45** Which of the following is an example of metamorphic rock used for construction?

- Ans
- 1. Rhyolite
  - 2. Tuff
  - 3. Gabbro
  - 4. Marble

Question Type : **MCQ**  
Question ID : **387868588**  
Option 1 ID : **3878682303**  
Option 2 ID : **3878682304**  
Option 3 ID : **3878682302**  
Option 4 ID : **3878682301**  
Status : **Answered**  
Chosen Option : 4

Q.46 Which of the following is a secondary air pollutant?

- Ans
- 1. Oxides of carbon
  - 2. Oxides of nitrogen
  - 3. Ozone
  - 4. Oxides of sulphur

Question Type : MCQ

Question ID : 387868608

Option 1 ID : 3878682383

Option 2 ID : 3878682381

Option 3 ID : 3878682382

Option 4 ID : 3878682384

Status : Answered

Chosen Option : 3

Q.47 What is the upper and lower limit of particle size used in the sedimentation analysis of soil in the laboratory?

- Ans
- 1. 0.2 mm and 0.0002 mm
  - 2. 0.3 mm and 0.0003 mm
  - 3. 0.1 mm and 0.001 mm
  - 4. 0.1 mm and 0.0001 mm

Question Type : MCQ

Question ID : 387868573

Option 1 ID : 3878682243

Option 2 ID : 3878682244

Option 3 ID : 3878682241

Option 4 ID : 3878682242

Status : Answered

Chosen Option : 1

Q.48 Calculate the depth of a point below the water surface in a sea where the pressure intensity is  $1098 \text{ kN/m}^2$  and the specific weight of the seawater is  $9.78 \text{ kN/m}^3$

- Ans
- 1. 100 m
  - 2. 112.26 m
  - 3. 110 m
  - 4. 108.6 m

Question Type : MCQ

Question ID : 387868578

Option 1 ID : 3878682261

Option 2 ID : 3878682262

Option 3 ID : 3878682264

Option 4 ID : 3878682263

Status : Answered

Chosen Option : 3

**Q.49** The following statements are related to steel beam.

1. A steel beam with a perforated web is called a encased beam.
2. A steel beam totally surrounded by concrete is called castellated beam.

Select the correct option.

- Ans**
- ✓ 1. Both statements are false.
  - ✗ 2. Statement 1 is true and 2 is false.
  - ✗ 3. Statement 1 is false and 2 is true.
  - ✗ 4. Both statements are true.

Question Type : **MCQ**  
Question ID : **387868597**  
Option 1 ID : **3878682340**  
Option 2 ID : **3878682337**  
Option 3 ID : **3878682338**  
Option 4 ID : **3878682339**  
Status : **Answered**  
Chosen Option : **4**

**Q.50** The Water (prevention and control of Pollution) Act was enacted by the government of India in the year \_\_\_\_\_.

- Ans**
- ✗ 1. 1956
  - ✓ 2. 1974
  - ✗ 3. 1964
  - ✗ 4. 1986

Question Type : **MCQ**  
Question ID : **387868605**  
Option 1 ID : **3878682369**  
Option 2 ID : **3878682371**  
Option 3 ID : **3878682370**  
Option 4 ID : **3878682372**  
Status : **Answered**  
Chosen Option : **2**

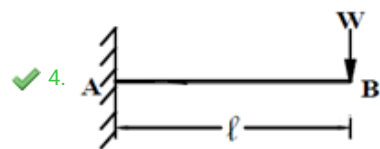
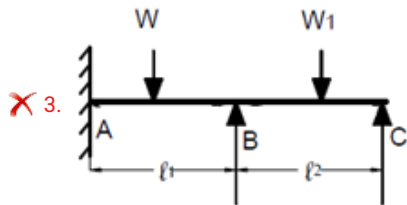
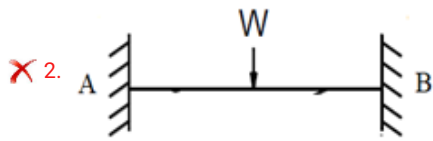
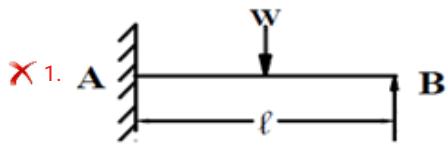
**Q.51** Two unlike parallel forces of magnitude 300N and 50N are acting in such a way that their lines of action are 100 mm apart. Determine the magnitude of the resultant force and the point at which its acts.

- Ans**
- ✓ 1. 20 mm
  - ✗ 2. 18 mm
  - ✗ 3. 13.4 mm
  - ✗ 4. 11.1 mm

Question Type : **MCQ**  
Question ID : **387868611**  
Option 1 ID : **3878682396**  
Option 2 ID : **3878682395**  
Option 3 ID : **3878682394**  
Option 4 ID : **3878682393**  
Status : **Answered**  
Chosen Option : **2**

Q.52 Select the statically determinate beam from the following.

Ans



Question Type : MCQ

Question ID : 387868579

Option 1 ID : 3878682267

Option 2 ID : 3878682266

Option 3 ID : 3878682268

Option 4 ID : 3878682265

Status : Answered

Chosen Option : 4

Q.53 If 'Q' is the total quantity of water required for various purposes by a town per year and 'p' is the population of the town, then per capita demand will be:

Ans

✗ 1.  $\frac{p}{Q \times 365}$  litres/day

✗ 2.  $\frac{365}{p \times Q}$  litres/day

✗ 3.  $\frac{pQ}{365}$  litres/day

✓ 4.  $\frac{Q}{p \times 365}$  litres/day

Question Type : MCQ

Question ID : 387868604

Option 1 ID : 3878682365

Option 2 ID : 3878682367

Option 3 ID : 3878682368

Option 4 ID : 3878682366

Status : Answered

Chosen Option : 1

**Q.54** If the pitch diameter of a Pelton wheel is 50 mm and the jet diameter is 10 mm, then the jet ratio of a turbine is:

- Ans
- 1. 10.00
  - 2. 5.00
  - 3. 0.20
  - 4. 0.50

Question Type : **MCQ**  
Question ID : **387868574**  
Option 1 ID : **3878682248**  
Option 2 ID : **3878682247**  
Option 3 ID : **3878682245**  
Option 4 ID : **3878682246**  
Status : **Answered**  
Chosen Option : **2**

**Q.55** A vehicle was stopped in 1.4 seconds by fully jamming the breaks and the skid marks measured 7.0 m. Determine the average skid resistance.

- Ans
- 1. 0.70
  - 2. 0.729
  - 3. 0.730
  - 4. 0.69

Question Type : **MCQ**  
Question ID : **387868589**  
Option 1 ID : **3878682306**  
Option 2 ID : **3878682305**  
Option 3 ID : **3878682308**  
Option 4 ID : **3878682307**  
Status : **Answered**  
Chosen Option : **1**

**Q.56** The permissible stress in axial steel tension member whose yield stress is 100 MPa is \_\_\_\_\_.

- Ans
- 1. 60
  - 2. 70
  - 3. 40
  - 4. 50

Question Type : **MCQ**  
Question ID : **387868595**  
Option 1 ID : **3878682331**  
Option 2 ID : **3878682332**  
Option 3 ID : **3878682329**  
Option 4 ID : **3878682330**  
Status : **Answered**  
Chosen Option : **1**



**Q.57** What is the bearing length under each rail seat for a Broad-Gauge wooden sleeper in Indian railways?

- Ans**
- 1. 89 cm
  - 2. 80 cm
  - 3. 92 cm
  - 4. 95 cm

Question Type : **MCQ**

Question ID : **387868591**

Option 1 ID : **3878682315**

Option 2 ID : **3878682313**

Option 3 ID : **3878682314**

Option 4 ID : **3878682316**

Status : **Answered**

Chosen Option : **1**

**Q.58** Select the correct description of 'Horn' component in doors.

**Ans**  1.

The extra projection of about 100 to 150 mm in length of the frame beyond the opening to fix in the wall.

2.

It is a piece of timber fixed in an inclined position within a frame.

3.

It is the recess made inside the door frame to receive the door frame.

4. It is the outside vertical member of the shutter.

Question Type : **MCQ**

Question ID : **387868556**

Option 1 ID : **3878682176**

Option 2 ID : **3878682175**

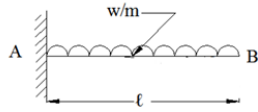
Option 3 ID : **3878682173**

Option 4 ID : **3878682174**

Status : **Answered**

Chosen Option : **1**

**Q.59** Cantilever beam of length  $l$  carrying uniformly distributed load ( $w/m$ ) is shown in the figure. What is the maximum slope at the free end B where  $EI$  is the flexure rigidity?



Ans

1.  $\frac{wl^3}{8EI}$

2.  $\frac{wl^3}{6EI}$

3.  $\frac{wl^3}{2EI}$

4.  $\frac{wl^3}{4EI}$

Question Type : MCQ

Question ID : 387868580

Option 1 ID : 3878682272

Option 2 ID : 3878682271

Option 3 ID : 3878682269

Option 4 ID : 3878682270

Status : Answered

Chosen Option : 2

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**Q.60** In the design of RCC structures, the development Length ( $L_d$ ) of Bar is calculated using which of the following formulas?

Where,

$\phi$  = nominal diameter of the bar,

$\sigma_s$  = stress in bar at the section considered at design load, and

$\tau_{bd}$  = design bond stress

**Ans**

✗ 1.  $L_d = \frac{\phi \tau_{bd}}{4\sigma_s}$

✗ 2.  $L_d = \frac{3\phi\sigma_s}{4\tau_{bd}}$

✓ 3.  $L_d = \frac{\phi\sigma_s}{4\tau_{bd}}$

✗ 4.  $L_d = \frac{\phi\sigma_s}{\tau_{bd}}$

Question Type : MCQ

Question ID : 387868596

Option 1 ID : 3878682336

Option 2 ID : 3878682334

Option 3 ID : 3878682333

Option 4 ID : 3878682335

Status : Answered

Chosen Option : 3

**Q.61** The existence of perfect balance or equilibrium between various organisms in the natural environment is called:

**Ans**

✗ 1. nutrient cycle balance

✗ 2. ecohydrological balance

✗ 3. hydrological balance

✓ 4. ecological balance

Question Type : MCQ

Question ID : 387868603

Option 1 ID : 3878682364

Option 2 ID : 3878682363

Option 3 ID : 3878682362

Option 4 ID : 3878682361

Status : Answered

Chosen Option : 4

**Q.62** The breakup or detachment of the biomass (biological solids) from the slime layer in the trickling filters of secondary wastewater treatment is known as:

- Ans**
- 1. sedimentation
  - 2. sloughing
  - 3. flocculation
  - 4. coagulation

Question Type : **MCQ**  
Question ID : **387868606**  
Option 1 ID : **3878682373**  
Option 2 ID : **3878682376**  
Option 3 ID : **3878682375**  
Option 4 ID : **3878682374**  
Status : **Answered**  
Chosen Option : **3**

**Q.63** What is the unit of measurement for Honey-comb brickwork in CM 1 : 4?

- Ans**
- 1. Cubic metre
  - 2. Square metre
  - 3. Numbers
  - 4. Per metre

Question Type : **MCQ**  
Question ID : **387868600**  
Option 1 ID : **3878682351**  
Option 2 ID : **3878682350**  
Option 3 ID : **3878682352**  
Option 4 ID : **3878682349**  
Status : **Answered**  
Chosen Option : **2**

**Q.64** Which of the following is NOT a function of admixture used in concrete?

- Ans**
- 1. To accelerate the initial set of concrete
  - 2. To increase the rate of bleeding of concrete
  - 3. To produce cellular concrete
  - 4. To reduce the segregation in grout and concrete mixtures

Question Type : **MCQ**  
Question ID : **387868568**  
Option 1 ID : **3878682221**  
Option 2 ID : **3878682224**  
Option 3 ID : **3878682223**  
Option 4 ID : **3878682222**  
Status : **Answered**  
Chosen Option : **2**

**Q.65** The process of putting the plane table into some fixed direction so that line representing a certain direction on the plane is parallel to that direction on the ground is called:

- Ans**
- 1. levelling
  - 2. centring
  - 3. orientation
  - 4. sighting

Question Type : **MCQ**

Question ID : **387868557**

Option 1 ID : **3878682178**

Option 2 ID : **3878682177**

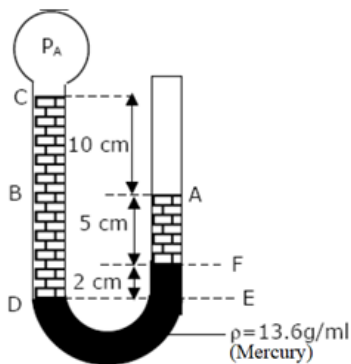
Option 3 ID : **3878682179**

Option 4 ID : **3878682180**

Status : **Answered**

Chosen Option : **3**

**Q.66** What is the absolute pressure of a gas at point A in the bulb shown in the figure?



- Ans**
- 1. 771.2 mm of Hg
  - 2. 560.5 mm of Hg
  - 3. 715.4 mm of Hg
  - 4. 625.6 mm of Hg

Question Type : **MCQ**

Question ID : **387868575**

Option 1 ID : **3878682252**

Option 2 ID : **3878682249**

Option 3 ID : **3878682251**

Option 4 ID : **3878682250**

Status : **Answered**

Chosen Option : **3**

Q.67 Match the following terminologies and definitions used in valuations.

Terminologies	Definitions
1. Scrap value	A. The estimated value of a built up property at the end of its useful life without being dismantled.
2. Salvage value	B. The value of the property is fixed by the rate of depreciation.
3. Market value	C. The value of dismantled materials of a built up property at the end of its utility period.
4. Book value	D. The value at which it can be sold in the open domain at particular time.

- Ans
- ✓ 1. 1-C; 2-A; 3-D; 4-B
  - ✗ 2. 1-B; 2-A; 3-D; 4-C
  - ✗ 3. 1-D; 2-A; 3-C; 4-B
  - ✗ 4. 1-C; 2-D; 3-A; 4-B

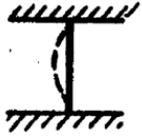
Question Type : **MCQ**  
Question ID : **387868602**  
Option 1 ID : **3878682357**  
Option 2 ID : **3878682358**  
Option 3 ID : **3878682360**  
Option 4 ID : **3878682359**  
Status : **Answered**  
Chosen Option : 1

Q.68 The effective stress of soil controls all the following properties, EXCEPT \_\_\_\_\_.

- Ans
- ✗ 1. permeability
  - ✓ 2. bending strength
  - ✗ 3. compressibility
  - ✗ 4. shear strength

Question Type : **MCQ**  
Question ID : **387868571**  
Option 1 ID : **3878682234**  
Option 2 ID : **3878682236**  
Option 3 ID : **3878682235**  
Option 4 ID : **3878682233**  
Status : **Answered**  
Chosen Option : 2

**Q.69** The IS 456-2000 recommended value of the effective length of an RCC compression member having unsupported length  $L$  shown in the figure, effectively held in position and restrained against rotation in both ends is:



- Ans**
- ✓ 1.  $0.65 L$
  - ✗ 2.  $1.00 L$
  - ✗ 3.  $1.50 L$
  - ✗ 4.  $0.80 L$

Question Type : **MCQ**

Question ID : **387868598**

Option 1 ID : **3878682341**

Option 2 ID : **3878682343**

Option 3 ID : **3878682344**

Option 4 ID : **3878682342**

Status : **Answered**

Chosen Option : **1**

**Q.70** Compute the equivalent radius of the resisting section of a 20 cm slab, given that the radius of the contact area wheel load is 10 cm.

- Ans**
- ✓ 1.  $\sqrt{560}$  cm
  - ✗ 2.  $\sqrt{490}$  cm
  - ✗ 3.  $\sqrt{520}$  cm
  - ✗ 4.  $\sqrt{450}$  cm

Question Type : **MCQ**

Question ID : **387868590**

Option 1 ID : **3878682312**

Option 2 ID : **3878682310**

Option 3 ID : **3878682311**

Option 4 ID : **3878682309**

Status : **Answered**

Chosen Option : **3**

Q.71 The timber, which is sawn into planks, posts etc. is called:

- Ans
- 1. durable timber
  - 2. standing timber
  - 3. rough timber
  - 4. lumber timber

Question Type : MCQ

Question ID : 387868554

Option 1 ID : 3878682168

Option 2 ID : 3878682165

Option 3 ID : 3878682166

Option 4 ID : 3878682167

Status : Answered

Chosen Option : 2

Q.72 What is the maximum percentage of water absorption by weight of the burnt clay bricks of class 30 as per IS 1077-1992 when tested in accordance with the standard procedure after immersion in cold water for 24 hours?

- Ans
- 1. 30%
  - 2. 10%
  - 3. 40%
  - 4. 20%

Question Type : MCQ

Question ID : 387868553

Option 1 ID : 3878682163

Option 2 ID : 3878682161

Option 3 ID : 3878682164

Option 4 ID : 3878682162

Status : Answered

Chosen Option : 2

Q.73 Two distances of 20 and 100 metres were accurately measured out and the intercepts on the staff between the outer stadia webs were 0.196 m at the former distance and 0.996 at the latter. Calculate the tacheometric constants K and C.

- Ans
- 1. 0.4 and 100
  - 2. 0 and 100
  - 3. 100 and 0.4
  - 4. 100 and 0

Question Type : MCQ

Question ID : 387868559

Option 1 ID : 3878682186

Option 2 ID : 3878682188

Option 3 ID : 3878682187

Option 4 ID : 3878682185

Status : Answered

Chosen Option : 4



**Q.74** A vehicle has a wheelbase of 6.5 m. What is the off tracking while negotiating a curved path with a mean radius of 32 m?

- Ans**
- 1. 0.59 m
  - 2. 0.77 m
  - 3. 0.66 m
  - 4. 0.70 m

Question Type : **MCQ**

Question ID : **387868592**

Option 1 ID : **3878682320**

Option 2 ID : **3878682318**

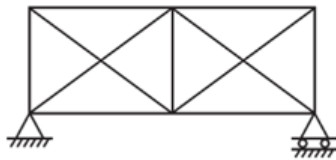
Option 3 ID : **3878682317**

Option 4 ID : **3878682319**

Status : **Answered**

Chosen Option : **2**

**Q.75** A simple truss is shown in the figure. What is the degree and type of this truss?



- Ans**
- 1. Zero degree perfect truss
  - 2. One degree space truss
  - 3. Two degree redundant truss
  - 4. Two degree deficient truss

Question Type : **MCQ**

Question ID : **387868583**

Option 1 ID : **3878682281**

Option 2 ID : **3878682284**

Option 3 ID : **3878682283**

Option 4 ID : **3878682282**

Status : **Answered**

Chosen Option : **1**

Q.76 Find the centre of gravity of a segment of height 50 mm of a sphere of radius 80 mm.

- Ans
- 1. 49.3 mm
  - 2. 55 mm
  - 3. 45 mm
  - 4. 47.76 mm

Question Type : MCQ

Question ID : 387868610

Option 1 ID : 3878682391

Option 2 ID : 3878682392

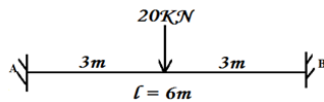
Option 3 ID : 3878682389

Option 4 ID : 3878682390

Status : Answered

Chosen Option : 2

Q.77 A fixed beam shown in the figure carries a point load of 20 kN at the centre. How many contraflexure point exist and where does they position?



- Ans
- 1. One contraflexure point exists at exactly below 20 kN load.
  - 2. Zero contraflexure point exists and no position.
  - 3. Two contraflexure points exist at 1.5 m from A and B.
  - 4.
- Three contraflexure points exist at 1.5 m, 3 m and 4.5 m from point A.

Question Type : MCQ

Question ID : 387868581

Option 1 ID : 3878682274

Option 2 ID : 3878682273

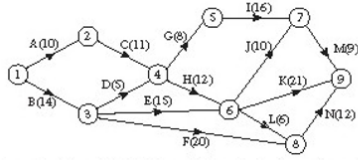
Option 3 ID : 3878682275

Option 4 ID : 3878682276

Status : Answered

Chosen Option : 2

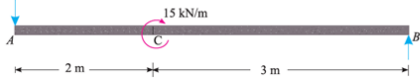
**Q.78** The engineering project is modelled by the activity network as shown below. The activities are represented by the arcs. The number in brackets on each arc gives the time, in days, to complete the activity. What are the early time and the late time for event 9?



- Ans**
- ✓ 1. 54, 54
  - ✗ 2. 45, 45
  - ✗ 3. 33, 33
  - ✗ 4. 39, 42

Question Type : **MCQ**  
 Question ID : **387868587**  
 Option 1 ID : **3878682297**  
 Option 2 ID : **3878682298**  
 Option 3 ID : **3878682300**  
 Option 4 ID : **3878682299**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.79** What is the shear force at point C for the beam subjected to a moment of 15kN-m as shown in the figure? Note: A and B are the simple support with A being downward and B being upward.



- Ans**
- ✓ 1. 3kN (Negative)
  - ✗ 2. 6kN (Negative)
  - ✗ 3. 3kN (Positive)
  - ✗ 4. 9kN (Positive)

Question Type : **MCQ**  
 Question ID : **387868561**  
 Option 1 ID : **3878682194**  
 Option 2 ID : **3878682195**  
 Option 3 ID : **3878682193**  
 Option 4 ID : **3878682196**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.80** What is the effective length of a steel compression member of actual length  $L$  which is effectively held in position at both ends but NOT restrained against rotation?

- Ans**  1.  $1.00 L$   
 2.  $2.00 L$   
 3.  $0.80 L$   
 4.  $1.20 L$

Question Type : MCQ  
Question ID : 387868593  
Option 1 ID : 3878682322  
Option 2 ID : 3878682324  
Option 3 ID : 3878682321  
Option 4 ID : 3878682323  
Status : Answered  
Chosen Option : 2

**Q.81** The artificial activity which indicates that an activity following it, cannot be started unless the preceding activity is complete, is known as:

- Ans**  1. constant  
 2. free float  
 3. event  
 4. dummy

Question Type : MCQ  
Question ID : 387868584  
Option 1 ID : 3878682288  
Option 2 ID : 3878682285  
Option 3 ID : 3878682286  
Option 4 ID : 3878682287  
Status : Answered  
Chosen Option : 4

**Q.82** Which of the following is NOT a characteristic of a couple in engineering mechanics?

- Ans**  1. The algebraic sum of the moments of the forces, constituting the couple, about any point is the same, and equal to the resultant of the couple itself.  
 2. The algebraic sum of the forces, constituting the couple is zero.  
 3. Any number of coplanar couples can be reduced to a single couple, whose magnitude will be equal to the algebraic sum of the moments of all the couples.  
 4. A couple cannot be balanced by a single force but it can be balanced only by a couple of opposite sense.

Question Type : MCQ  
Question ID : 387868612  
Option 1 ID : 3878682398  
Option 2 ID : 3878682397  
Option 3 ID : 3878682400  
Option 4 ID : 3878682399  
Status : Answered  
Chosen Option : 3

**Q.83** According to IS456-2000, the basic values of span to effective depth ratios for simply supported RCC beam spans up to 10 m is:

- Ans  1. 34  
 2. 20  
 3. 7  
 4. 26

Question Type : **MCQ**

Question ID : **387868594**

Option 1 ID : **3878682328**

Option 2 ID : **3878682326**

Option 3 ID : **3878682325**

Option 4 ID : **3878682327**

Status : **Answered**

Chosen Option : **2**

**Q.84** The apparatus for conducting the slump test essentially consists of a metallic mould in the form of a frustum of a cone having the internal dimensions as:

- Ans  1.  
Bottom diameter : 20 cm; Top diameter : 30 cm; Height : 50 cm  
 2.  
Bottom diameter : 10 cm; Top diameter : 20 cm; Height : 15 cm  
 3.  
Bottom diameter : 15 cm; Top diameter : 20 cm; Height : 30 cm  
 4.  
Bottom diameter : 20 cm; Top diameter : 10 cm; Height : 30 cm

Question Type : **MCQ**

Question ID : **387868567**

Option 1 ID : **3878682220**

Option 2 ID : **3878682217**

Option 3 ID : **3878682218**

Option 4 ID : **3878682219**

Status : **Answered**

Chosen Option : **4**

Q.85 Select the INCORRECT statement from the following.

Ans  1. The beginning and end of a job are called events.

2.

The activity which consumes the maximum time, is called a node.

3.

Logically and sequentially connected activities and events form a network.

4. The activity is the time consuming part of a project.

Question Type : MCQ

Question ID : 387868585

Option 1 ID : 3878682291

Option 2 ID : 3878682289

Option 3 ID : 3878682292

Option 4 ID : 3878682290

Status : Answered

Chosen Option : 2

Q.86 The chainage of the intersection point of two straights is 1060 m, and the angle of intersection is  $120^\circ$ . If the radius of a circular curve to be set out is 570 m, and the peg interval is 30 m, determine the tangent length.

Ans  1. 330.19 m

2. 325.09 m

3. 229.09 m

4. 329.09 m

Question Type : MCQ

Question ID : 387868560

Option 1 ID : 3878682190

Option 2 ID : 3878682191

Option 3 ID : 3878682192

Option 4 ID : 3878682189

Status : Answered

Chosen Option : 4

Q.87 The normal stress and shear stress on a failure plane in a drained test on cohesionless soil are  $100 \text{ kN/m}^2$  and  $50 \text{ kN/m}^2$ . The angle of shearing resistance is  $20^\circ$ . What is the angle that the failure plane makes with the major principal plane?

Ans  1.  $55^\circ$

2.  $25^\circ$

3.  $35^\circ$

4.  $65^\circ$

Question Type : MCQ

Question ID : 387868572

Option 1 ID : 3878682238

Option 2 ID : 3878682239

Option 3 ID : 3878682237

Option 4 ID : 3878682240

Status : Answered

Chosen Option : 1

**Q.88** The cost of construction of an underground water tank of capacity  $100 \text{ m}^3$  is ₹5,00,000. Find the unit rate/litre. Also, find the approximate cost of a similar water tank in the same area to store 2,50,000 litres.

**Ans**  1.

Unit rate per litre is ₹2.5 and the approximate cost for 250000 litres is ₹100,000.

2.

Unit rate per litre is ₹8 and the approximate cost for 250000 litres is ₹1,45,000.

3.

Unit rate per litre is ₹3.5 and the approximate cost for 250000 litres is ₹1,20,000.

4.

Unit rate per litre is ₹5 and the approximate cost for 250000 litres is ₹1,25,000.

Question Type : **MCQ**

Question ID : **387868601**

Option 1 ID : **3878682353**

Option 2 ID : **3878682356**

Option 3 ID : **3878682354**

Option 4 ID : **3878682355**

Status : **Answered**

Chosen Option : **1**

**Q.89** Which of the following approaches creates perseverance to learn, know practice and strive toward a high level of safety at the job site?

**Ans**  1. Physical approach

2. Organisational approach

3. Economic incentives

4. Behavioural approach

Question Type : **MCQ**

Question ID : **387868586**

Option 1 ID : **3878682295**

Option 2 ID : **3878682293**

Option 3 ID : **3878682296**

Option 4 ID : **3878682294**

Status : **Answered**

Chosen Option : **4**

**Q.90** Which of the following apparatus should be used for the determination of the soundness of cement in the laboratory?

**Ans**  1. Blaine's apparatus

2. Slump cone

3. Le Chatelier's apparatus

4. Vicat's apparatus

Question Type : **MCQ**

Question ID : **387868566**

Option 1 ID : **3878682214**

Option 2 ID : **3878682216**

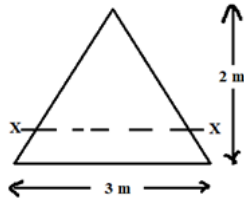
Option 3 ID : **3878682215**

Option 4 ID : **3878682213**

Status : **Answered**

Chosen Option : **3**

Q.91 Find the moment of inertia of a triangle shown in the figure about its centroidal axis XX.



- Ans
- 1.  $6.5 \text{ m}^4$
  - 2.  $2 \text{ m}^4$
  - 3.  $0.67 \text{ m}^4$
  - 4.  $4 \text{ m}^4$

Question Type : MCQ

Question ID : 387868562

Option 1 ID : 3878682200

Option 2 ID : 3878682198

Option 3 ID : 3878682197

Option 4 ID : 3878682199

Status : Answered

Chosen Option : 3

Q.92 Calculate the loss of head at entrance if pipe of 30 mm diameter is conveying water with a velocity of 2.5 m/s.

- Ans
- 1. 0.159 m
  - 2. 0.258 m
  - 3. 0.198 m
  - 4. 0.480 m

Question Type : MCQ

Question ID : 387868576

Option 1 ID : 3878682254

Option 2 ID : 3878682253

Option 3 ID : 3878682255

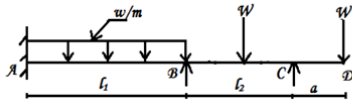
Option 4 ID : 3878682256

Status : Answered

Chosen Option : 4



**Q.93** A continuous beam with one end fixed and another end with overhanging is shown in the figure. What is the degree of static indeterminacy?



- Ans
- 1. 4
  - 2. 2
  - 3. 5
  - 4. 3

Question Type : MCQ

Question ID : 387868582

Option 1 ID : 3878682279

Option 2 ID : 3878682277

Option 3 ID : 3878682280

Option 4 ID : 3878682278

Status : Answered

Chosen Option : 1

**Q.94** Water hammering is defined as:

- Ans
- 1. sudden rise of vibration in the pipe
  - 2. sudden rise of pressure in the pipe
  - 3. sudden rise of noise in the pipe
  - 4. sudden entry of air in the pipe

Question Type : MCQ

Question ID : 387868577

Option 1 ID : 3878682257

Option 2 ID : 3878682258

Option 3 ID : 3878682260

Option 4 ID : 3878682259

Status : Answered

Chosen Option : 2

**Q.95** In the theory of simple bending, the bending stress in the beam section varies:

- Ans
- 1. parabolically
  - 2. elliptically
  - 3. linearly
  - 4. harmonically

Question Type : MCQ

Question ID : 387868563

Option 1 ID : 3878682202

Option 2 ID : 3878682203

Option 3 ID : 3878682201

Option 4 ID : 3878682204

Status : Answered

Chosen Option : 1

Q.96 Which of the following artificial light aggregates is used to produce lightweight concrete?

- Ans
- 1. Rice husk
  - 2. Pumice
  - 3. Saw dust
  - 4. Sintered fly ash

Question Type : MCQ

Question ID : 387868569

Option 1 ID : 3878682226

Option 2 ID : 3878682225

Option 3 ID : 3878682228

Option 4 ID : 3878682227

Status : Answered

Chosen Option : 2

Q.97 The forces generated in a 'Tripod carrying a camera' is an example of:

- Ans
- 1. coplanar concurrent force system
  - 2. non-coplanar concurrent force system
  - 3. non-concurrent non-coplanar force system
  - 4. coplanar non-concurrent force system

Question Type : MCQ

Question ID : 387868609

Option 1 ID : 3878682385

Option 2 ID : 3878682388

Option 3 ID : 3878682387

Option 4 ID : 3878682386

Status : Answered

Chosen Option : 1

Q.98 The departure and latitude of a forward point with respect to the preceding point is known as the:

- Ans
- 1. reference coordinates
  - 2. consecutive coordinates
  - 3. meridian
  - 4. quadrant

Question Type : MCQ

Question ID : 387868558

Option 1 ID : 3878682182

Option 2 ID : 3878682181

Option 3 ID : 3878682183

Option 4 ID : 3878682184

Status : Answered

Chosen Option : 4

Q.99 Which of the following is NOT a hydration component of Ordinary Portland Cement?

- Ans
- 1. Monosulphate
  - 2. Alite
  - 3. Ettringite
  - 4. Calcium hydroxide

Question Type : MCQ

Question ID : 387868565

Option 1 ID : 3878682211

Option 2 ID : 3878682209

Option 3 ID : 3878682210

Option 4 ID : 3878682212

Status : Answered

Chosen Option : 3

Q.100 The disposal of municipal solid waste by cutting, tearing, crushing and grinding is called:

- Ans
- 1. shredding and pulverisation
  - 2. composting and barging into sea
  - 3. incineration and thermal pyrolysis
  - 4. sanitary land filling

Question Type : MCQ

Question ID : 387868607

Option 1 ID : 3878682380

Option 2 ID : 3878682378

Option 3 ID : 3878682379

Option 4 ID : 3878682377

Status : Answered

Chosen Option : 1